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(54) PHOTSENSITIVE COMPOSITION AND PRINTING PLATE USING SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a photosensitive composition capable of handling in a light room, not needing development or wiping operation and excellent in sensitivity, resolution and various printing characteristics such as printing resistance by incorporating a hydrophilic polymer having amido and glycidyl groups in a side chain, a crosslinking agent and a light absorber.

SOLUTION: The photosensitive composition contains a hydrophilic polymer having amido and glycidyl groups in a side chain, a crosslinking agent and a light absorber. The crosslinking agent may be any compound which enhances the water resistance of the hydrophilic polymer by crosslinking reaction with the hydrophilic polymer and it is particularly selected from a polyamine compound, a polycarboxylic acid compound, its acid anhydride and polyphenol compounds, each of which reacts readily with the glycidyl group in the hydrophilic polymer. The amount of the hydrophilic polymer is 97-40 wt.%, preferably 95-45 wt.% (expressed in terms of solid matter), the amount of the crosslinking agent is 3-60 wt.%, preferably 5-55 wt.% and the amount of the light absorber is preferably 2-20 pts.wt. based on 100 pts.wt., in total, of the hydrophilic polymer and the crosslinking agent.

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